Pleasant Valley Substation

12.4 kV Distribution Substation Rebuild – Rapid City, SD
Every day, we improve life with energy. We’re more than an electric provider; we’re a community partner. Our more-than 69,000 customers live in 38 communities throughout western South Dakota, northeastern Wyoming and southeastern Montana. We’re an investor-owned utility and part of the Black Hills Corporation family.

For nearly 134 years, we’ve provided safe, reliable electric service to our customers. And we’ll do that for the next 134 years and beyond.

Major communities served
- Belle Fourche
- Box Elder
- Custer
- Deadwood
- Edgemont
- Hill City
- Hot Springs
- Keystone
- Lead
- Newcastle
- Newell
- Rapid City
- Summerset
- Spearfish
- Sturgis
- Upton
- Whitewood

Fast facts
- 69,000 customers
- 38 communities served
- 235 employees
- 3,591 total miles of transmission

We own and operate generating facilities in:
- Gillette: 260 MW of natural gas and coal-fired generation
- Cheyenne: 55 MW of natural gas-fired generation
- Rapid City: 130 MW of natural gas and oil-fired generation
How we deliver electricity...

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About the Substation

• The Pleasant Valley substation has been in operation since 1975 and supports about 2,900 customers in the West Chicago area.

• Substation is located south side of West Chicago Blvd, Rapid City between neighboring residential homes.

• Pleasant Valley Substation is a distribution substation (12.4 kV)

• During peak system conditions there are limited back up to this system during planned and unplanned outage conditions.
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Why the Upgrade?

• Black Hills Energy is committed to providing our customers with safe, reliable electric energy when they need it, where they need it; this commitment is demonstrated by our 99.9 percent reliability.

• The upgrade of the Pleasant Valley substation is required to maintain distribution system integrity and continue to meet a growing demand for energy to maintain industry-leading reliability for our customers.

• During peak system conditions there are limited back up to this system during planned and unplanned outage conditions.

• Black Hills Energy anticipates customer needs well in advance because we can’t wait for electric system failure before initiating a process that can take years to complete.
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What needs to be done? (Scope)

- Upgrade the existing substation with a new low-noise transformer and new enclosed switchgear.
- All existing equipment in the yard needs to be removed and the facility reconstructed from the ground up.
- The substation site is in a residential neighborhood, and the facility design cannot be expanded and needs to minimize visual and operational impacts.
Pleasant Valley Substation

Safety

• Safety is a top priority at Black Hills Energy for our employees, contractors, landowners and customers.

• BHE will communicate to customers located in/and around the substation neighborhood about outdoor electric safety tips during the construction project.

• Contractors and construction crews are equipped to handle the diverse hazards surrounding this project.

• Preparedness includes daily safety meetings and reporting, safety equipment located at each job site, and fire protection equipment and training given to all project crew members.
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The Schedule

• 1st & 2nd Quarter of 2018 – June 2018 Site design and engineering
• 2nd & 3rd Quarter of 2018
  • Public Officials and City Planning Communication
  • Public Works Committee and Department
  • Neighborhood meeting with Councilwomen Armstrong and Drew
  • Customer Communications – Personal & Direct mail
• January 2019 – Construction preparation begin
• February 2019 – Construction begin
• June 2019 – Construction completed substation re-energized for service
Pleasant Valley Substation

Key Contacts

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VISION
Be the Energy Partner of Choice.

MISSION
Improving Life with Energy.

COMPANY VALUES

Agility
We embrace change and challenge ourselves to adapt quickly to opportunities.

Customer Service
We are committed to providing a superior customer experience every day.

Partnership
Our partnerships with shareholders, communities, regulators, customers and each other make us all stronger.

Communication
Consistent, open and timely communication keeps us focused on our strategy and goals.

Integrity
We hold ourselves to the highest standards based on a foundation of unquestionable ethics.

Respect
We respect each other. Our unique talents and diversity anchor a culture of success.

Creating Value
We are committed to creating exceptional value for our shareholders, employees, customers and the communities we serve... always.

Leadership
Leadership is an attitude. Everyone must demonstrate the care and initiative to do things right.

Safety
We commit to live and work safely every day.